**Organization:** University of Rochester River Campus Libraries  
**Primary mentor:** Sarah Pugachev, Somerville Director, Science and Engineering Libraries & Research Initiatives

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<th>Project Title</th>
<th>Understanding Disciplinary Publishing Practices at UR</th>
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| Description   | The River Campus Libraries at the University of Rochester support faculty across disciplines including fields in the humanities, social sciences, and sciences. While we have liaison librarians, who are experts in each discipline with close relationships to faculty and students, we are moving to incorporate more data into our understanding of publishing practices and how we can improve our support in areas like collections, scholarly identity management, research impact, and open access.  

We would like a LEADING fellow to clean and perform data analysis on UR publication data related to 3-5 disciplines investigating and visualizing key publishing practices, formats, forms of impact (primarily citations but can include altmetrics), and open access status. We would also like the fellow to explore trends and patterns between these different areas of inquiry.  

This work will build upon previous project complete by UR graduate students, the Libraries Data Analyst, Liaison Librarians, and our Scholarly Communication Librarian. These stakeholders will be available to provide context and answer questions about the data provided to the fellow.  

This project can be adjusted to meet the interest of the fellow and their learning objectives. |
| Problems/Research Questions | • What kind of publication formats are most common in different disciplines at UR?  
• Where do our faculty in these disciplines publish most frequently?  
• How does publication venue affect readership (volume, time, impact)?  
• How commonly are open access options pursued and how (when relevant) do they impact the readership of publications?  
• Other questions that may arise from looking at the data. |
| Techniques | • Data analysis (could include basic charts, time-series analysis, network analysis, and other techniques recommended by fellow)  
• Data visualization |
| Tools/Languages used | • Programming language of choice (Python or R is preferred)  
• Dashboard reporting tool like R Shiny, Tableau, etc. (optional) or other forms for sharing output |
| Data | Description: Datasets of publications by discipline. (3-5 disciplines) Includes years, publishers, DOIs, open access status (when available).  
Data Type: spreadsheets  
Description: Datasets of impact of publications. Depending on discipline can include citation metrics, libraries that own publications, reviews.  
Data Type: spreadsheets |
| Outcome | Reproducible code and visualizations that we can use to assess and improve library services around collections, scholarly identity management, research impact, and open access. |
| Milestone Timeline | Below is an estimated timeline with milestones. These are subject to change depending on how the project progresses.  
• **June-July**: Introduction to project, research questions, and basics of bibliometrics. Understand data and perform data cleaning if necessary. Understand and receive training on systems used to access additional data.  
• **August**: Determine and group journals based on format/modality. Determine most used formats for different disciplines. Analyze if this has changed over time.  
• **September-October**: Compare, analyze, and visualize publication practices along additional dimensions such as open access and impact. |
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- **November**: Make recommendations for how we might incorporate findings and trends into library services and conversations with faculty.
- **November - December**: If time permits, consider collaborations within the publications and if there is a correlation with impact or publishing practices.